

The diagram illustrates a network architecture labeled "PRIOR ART". It features two Mobile Switching Centers (MSCs): an "ANCHOR MSC" (160) on the left and a "TARGET MSC" (170) on the right. They are connected by a "Signaling Trunk" (180) labeled "III. Network Interface for control signaling purposes". Below this, "Voice Trunks" (190) are labeled "IV. Network Interface for voice transit purposes".

On the left, a "Signaling Trunk" (185) connects the Anchor MSC to an "HLR" (175). The Anchor MSC is connected via a radio link (115) to a mobile phone (110), labeled "I. Air Interface towards A subscriber". The Target MSC is connected via a radio link (117) to two mobile phones (120 and 130), collectively labeled "II. Air Interface towards B subscriber".

Additional labels include "A." and "D." near the phones, and "130", "140", and "150" near the subscriber B phones. The entire diagram is captioned "PRIOR ART" at the bottom.

Figure 1. Network reference model of today's handoff forward scenario.

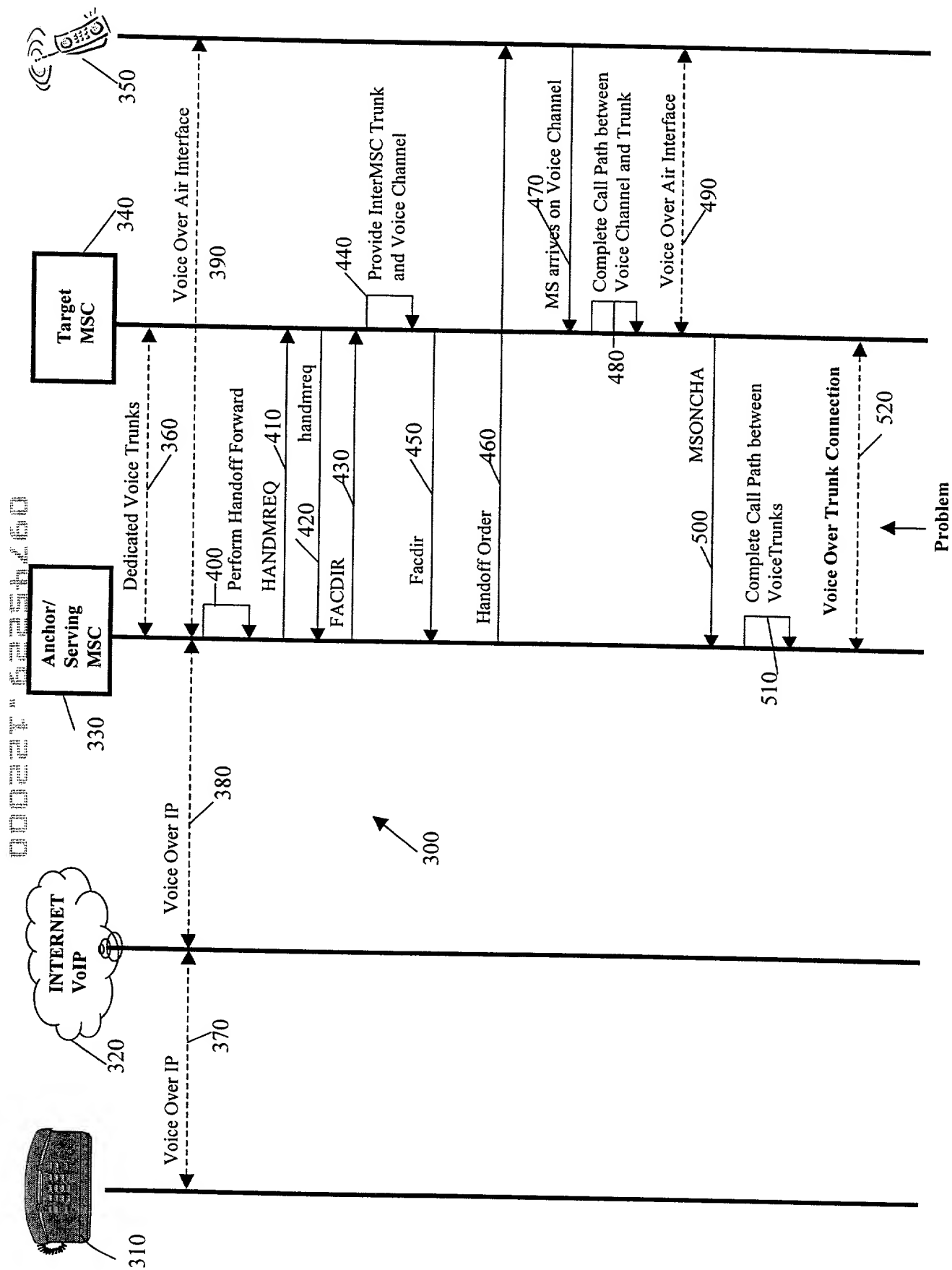


Figure 2. PRIOR ART Interaction between network entities to perform a handoff forward operation

Object Oriented Network Reference Model

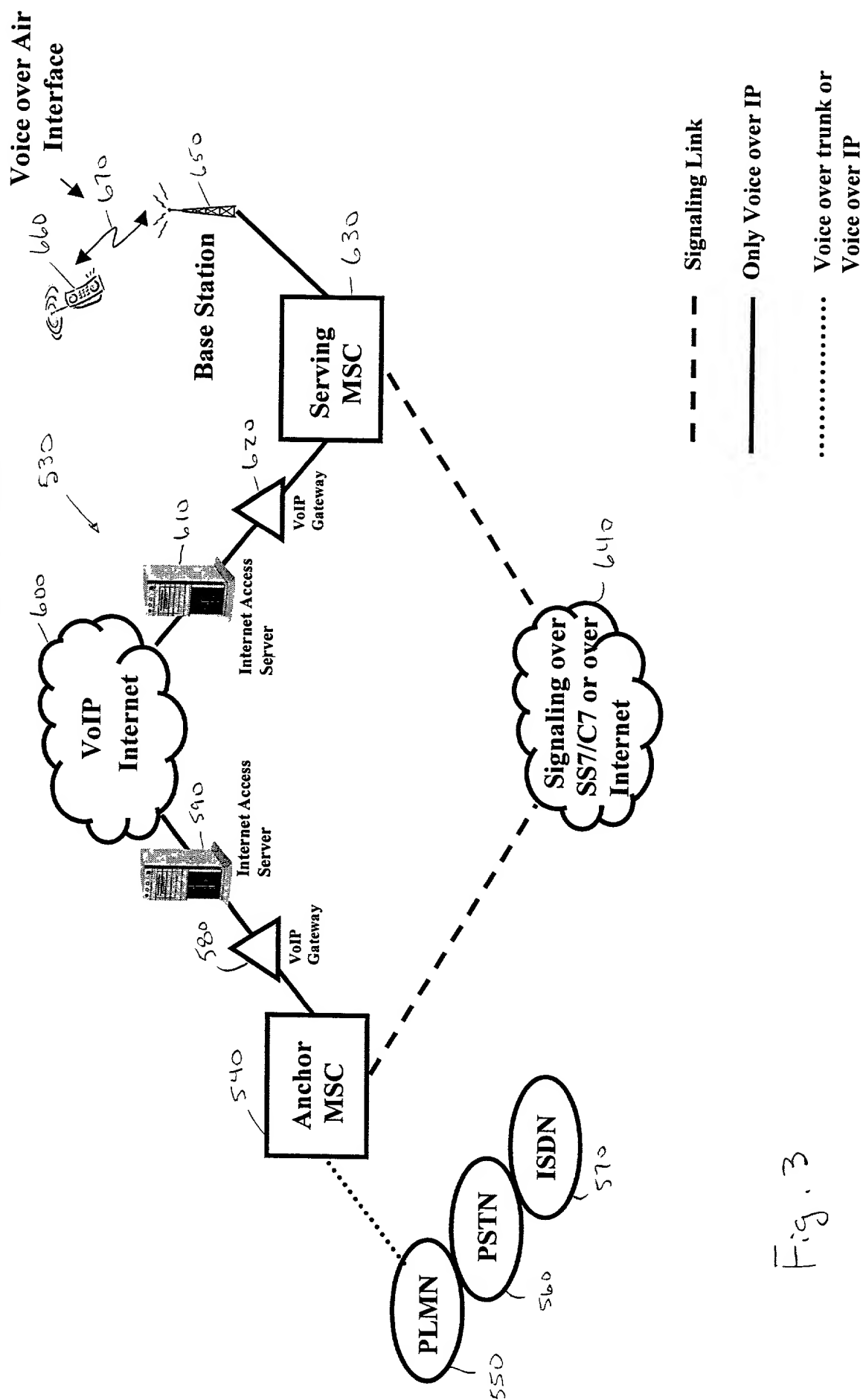


Fig. 3

VOICE OVER IP DURING AN INTEREXCHANGE HANDOFF (NO INTERMSC-TRUNKS ARE USED)

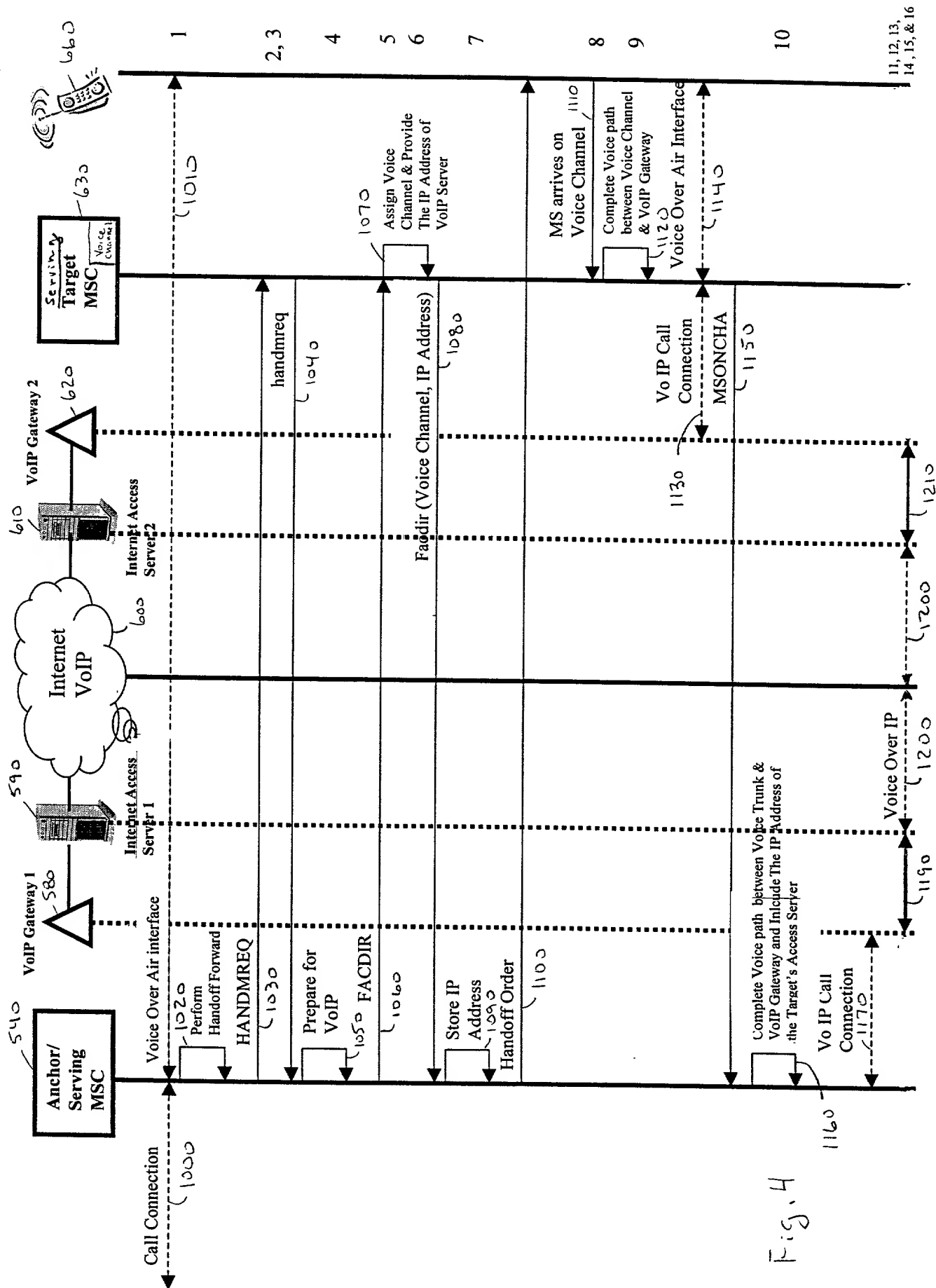


Fig. 4

11, 12, 13,
14-15 & 16

NEW SCENARIO, WHERE USING VOIP, NO TANDEM MSC IS NEEDED TO PROVIDE VOICE CONNECTION

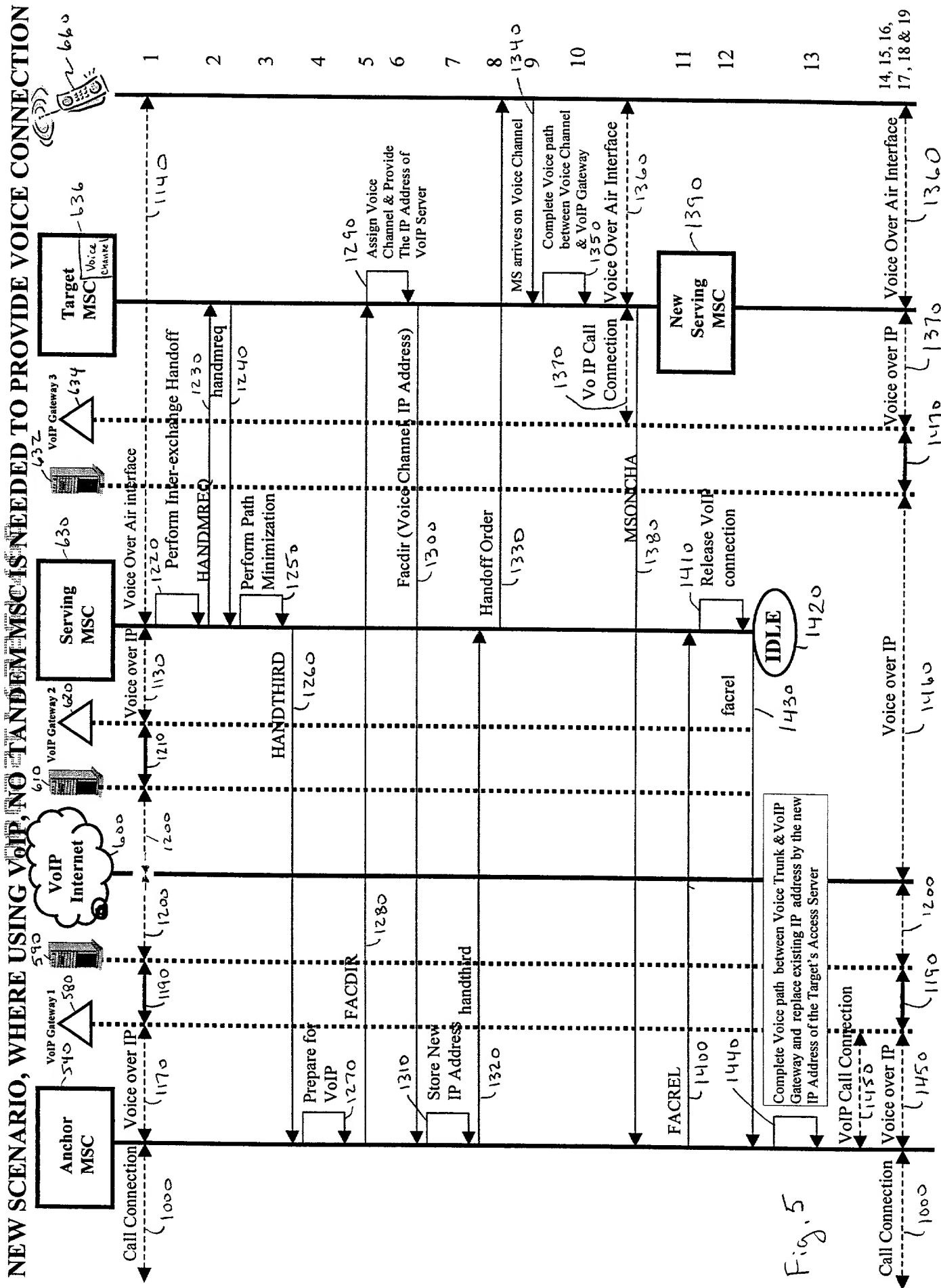


Fig. 5

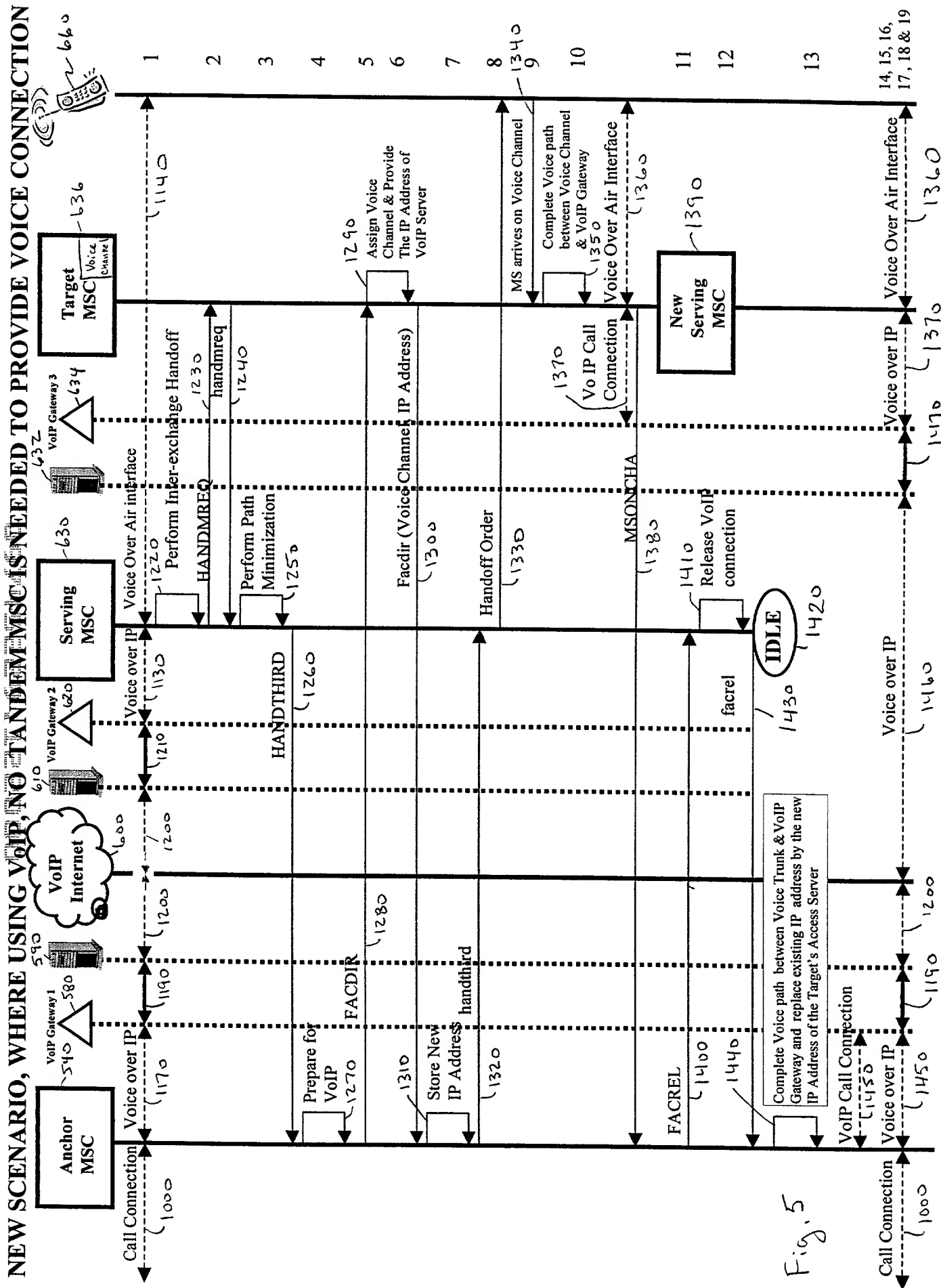


Fig. 5